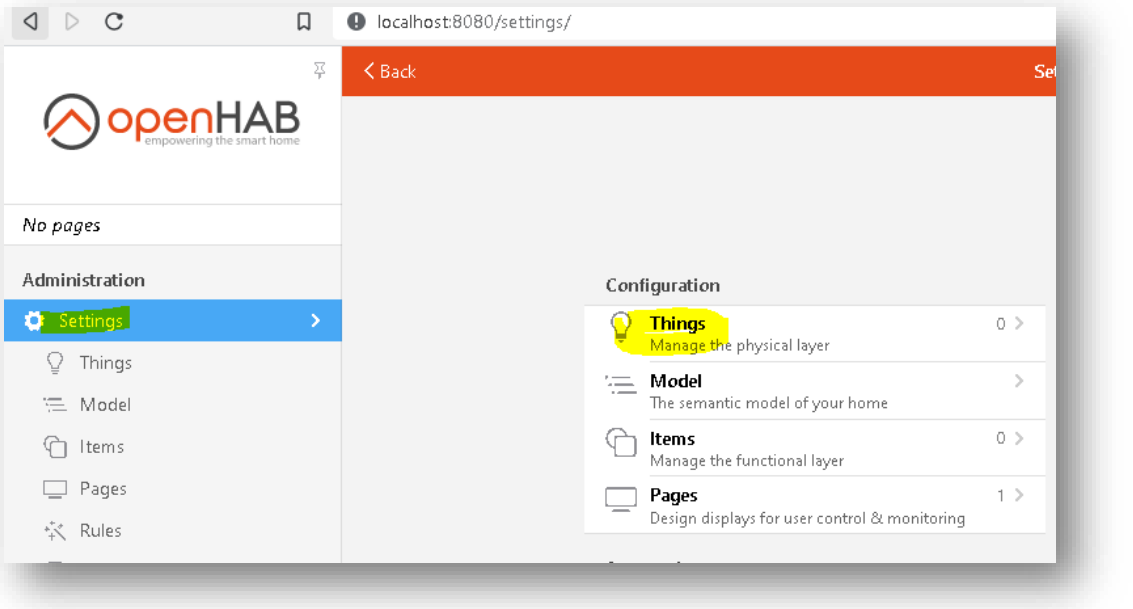
Step 7

Enabling a new Switch PIN

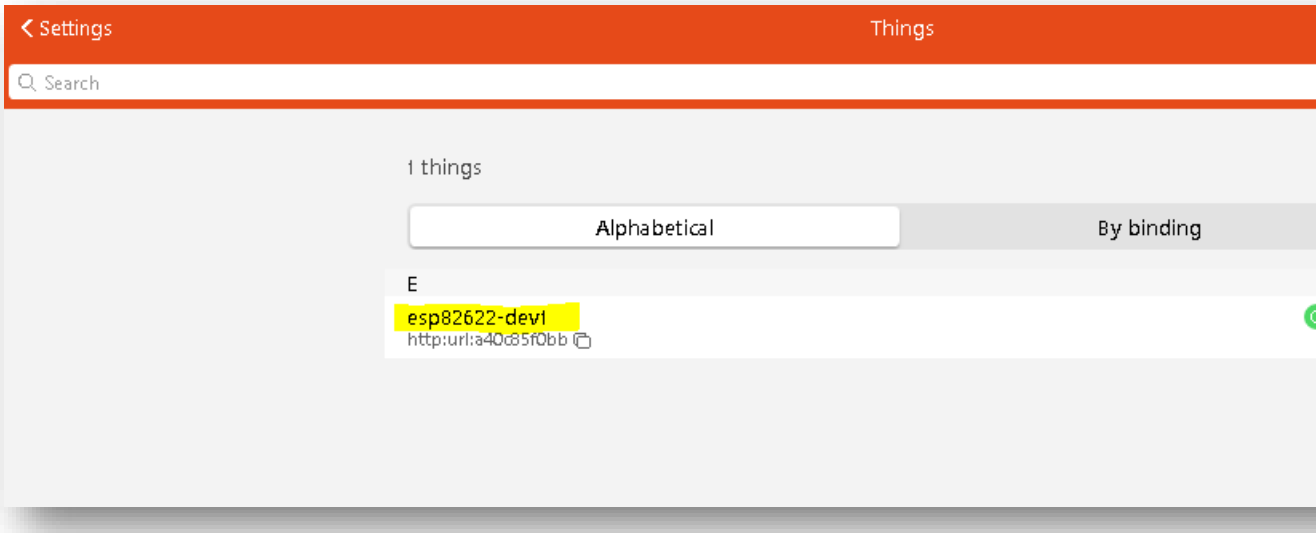
to OpenHAB

To add our newly flashed (kamoteq) esp8266 nodeMCU to the OpenHAB follow the below steps

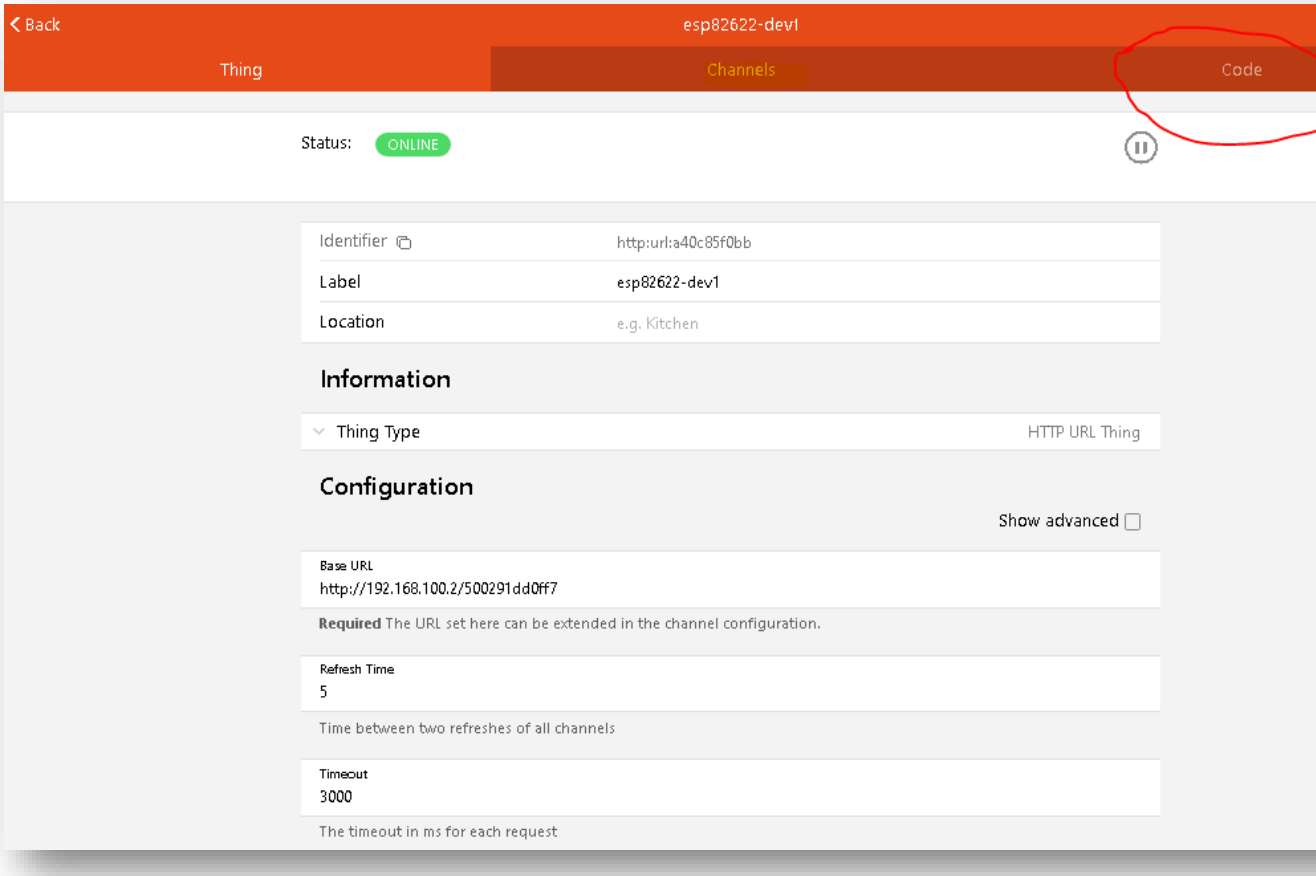
Click Settings > and Things



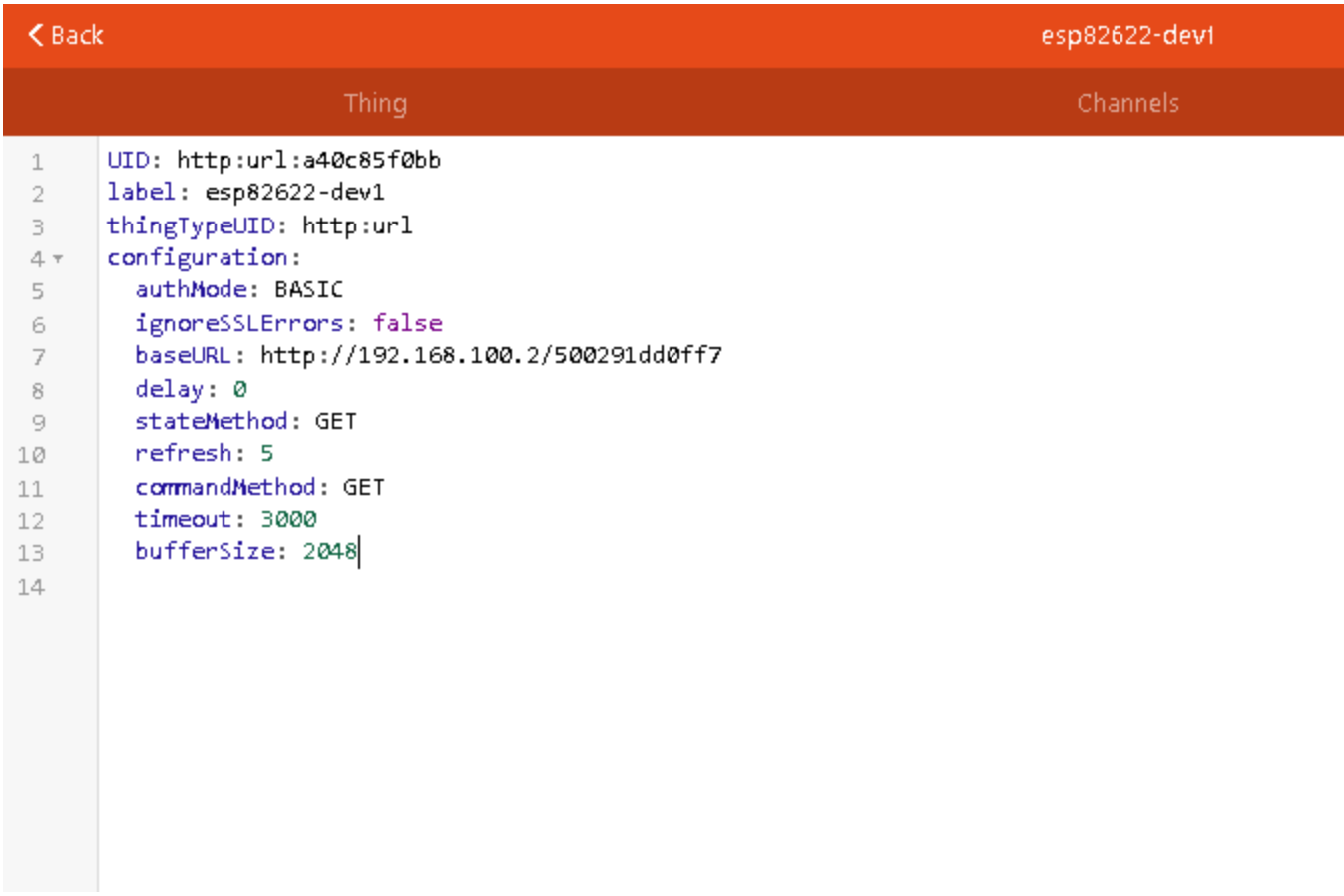
Click the newly added ESP device



Click the “Code” tab



This will display the editing window



Add these lines of codes and change the <changeme> with the pin number you want to use
Available pins for output switches are GPIO 4,5,12,13 & 14

---------- code ----------

```
channels:
  - id: nu_pin<changeme>
    channelTypeUID: http:switch
    label: nu_pin<changeme>
    description: null
    configuration:
      onValue: "1"
      offValue: "0"
```

```
    stateExtension: /?req=stat&pin=<changeme>
    commandExtension: /?req=set&pin=<changeme> &mode=%2$s
    stateTransformation: JSONPATH:$.status
---------- code ----------
```

Or use this (since the setup lab used pin 14/D5 for testing)

```
---------- code ----------
channels:
 - id: nu_pin14
   channelTypeUID: http:switch
   label: nu_pin14
   description: null
   configuration:
    onValue: "1"
    offValue: "0"
    stateExtension: /?req=stat&pin=14
    commandExtension: /?req=set&pin=14 &mode=%2$s
    stateTransformation: JSONPATH:$.status
---------- code ----------
```

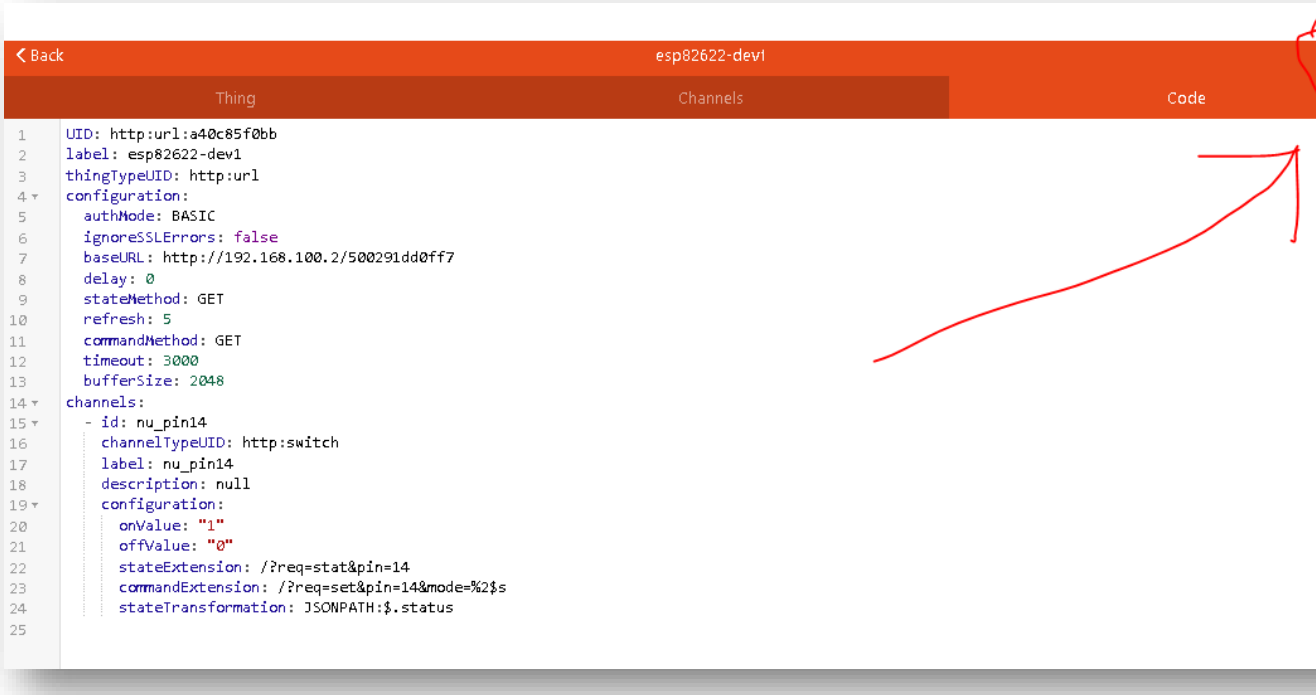
NOTE! channels: must be on the same line as the configuration inside the editor

```
UID: http:url:a40c85f0bb
label: esp82622-dev1
thingTypeUID: http:url
configuration:
  authMode: BASIC
  ignoreSSLErrors: false
  baseURL: http://192.168.100.2/500291dd0ff7
  delay: 0
  stateMethod: GET
  refresh: 5
  commandMethod: GET
  timeout: 3000
  bufferSize: 2048
channels:
  - id: nu_pin14
    channelTypeUID: http:switch
    label: nu_pin14
    description: null
    configuration:
      onValue: "1"
      offValue: "0"
      stateExtension: /?req=stat&pin=14
      commandExtension: /?req=set&pin=14&mode=%2$s
      stateTransformation: JSONPATH:$.status
```

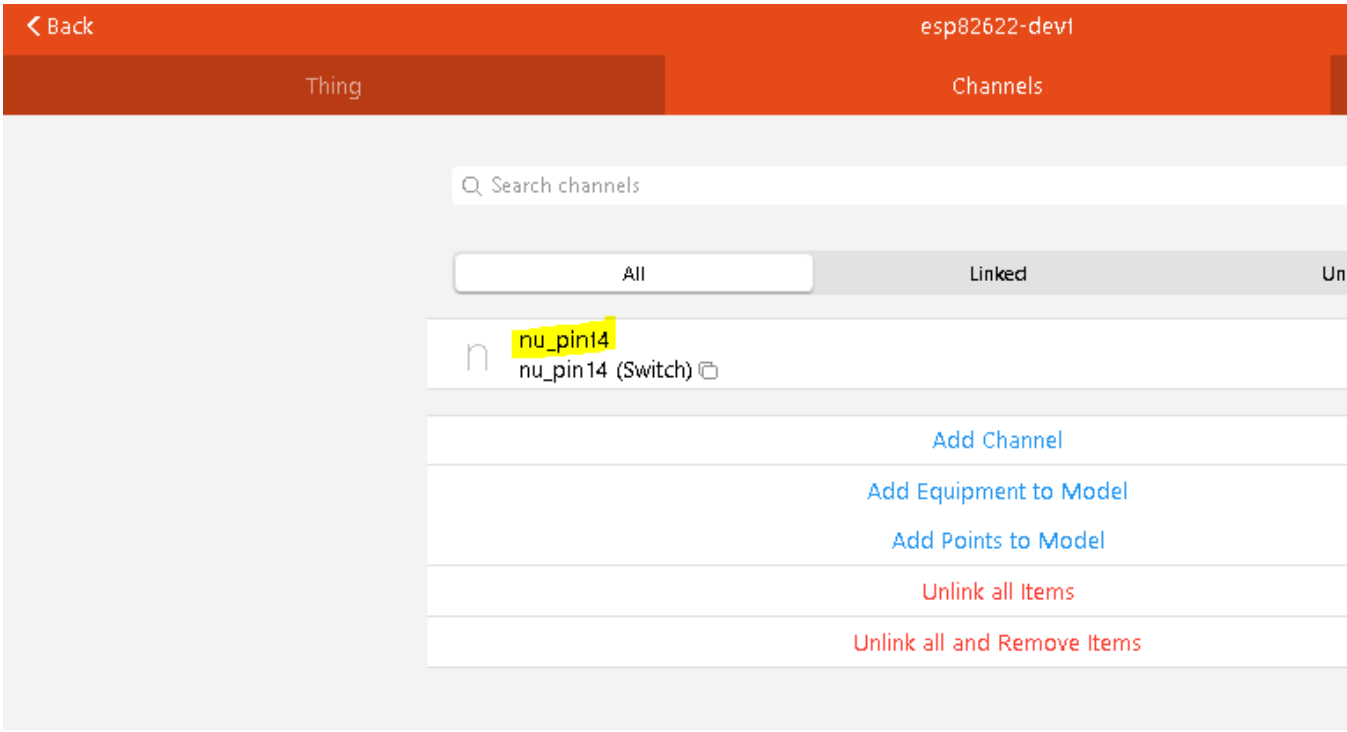
Warning! Alignment or indentation on the source code is very important otherwise this will throw an error

If you want to add more switches, just copy and update the pin number on just make sure you follow the
Correct indentations for the coding

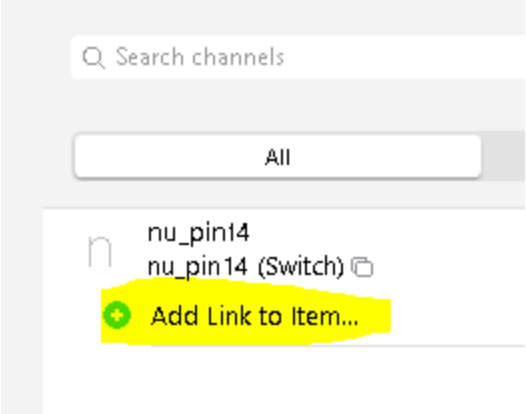
Once you confirmed you're done, then you can go ahead and save the changes by clicking the button "Save (Ctrl+S)" on
The far upper right side



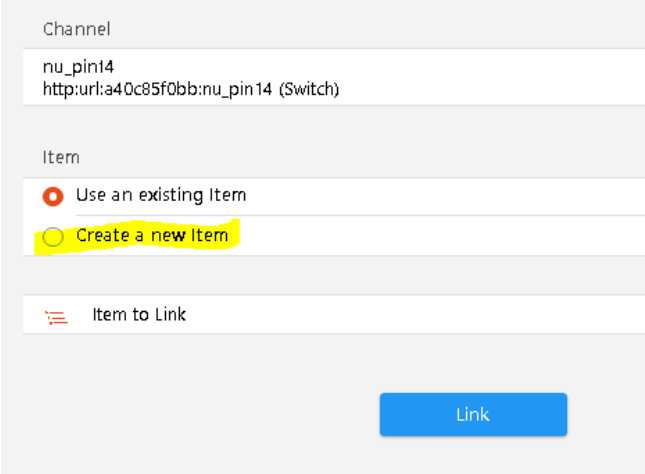
Now click the Tab "Channels" and click the newly created channel



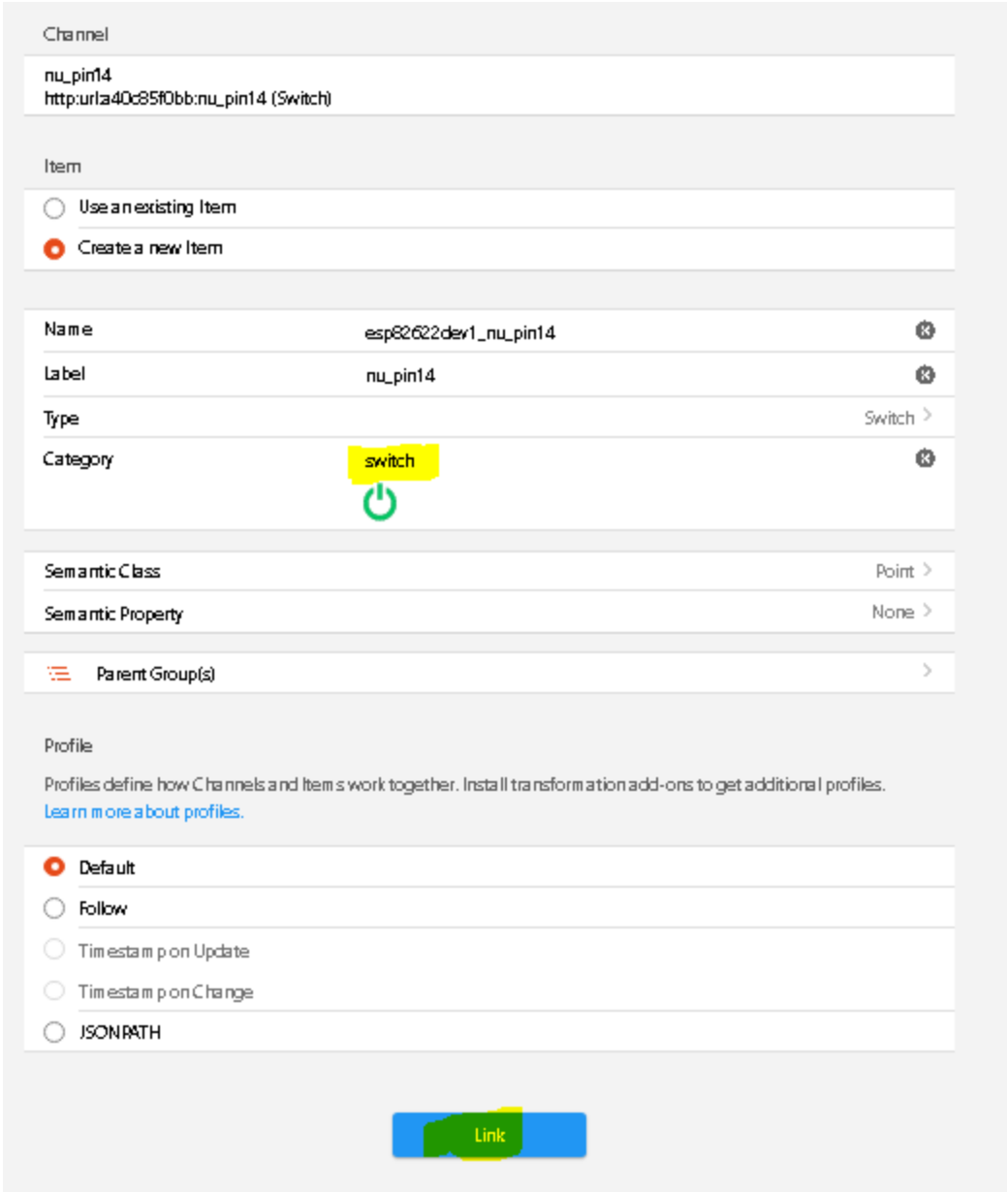
Click “Add Link to Item”



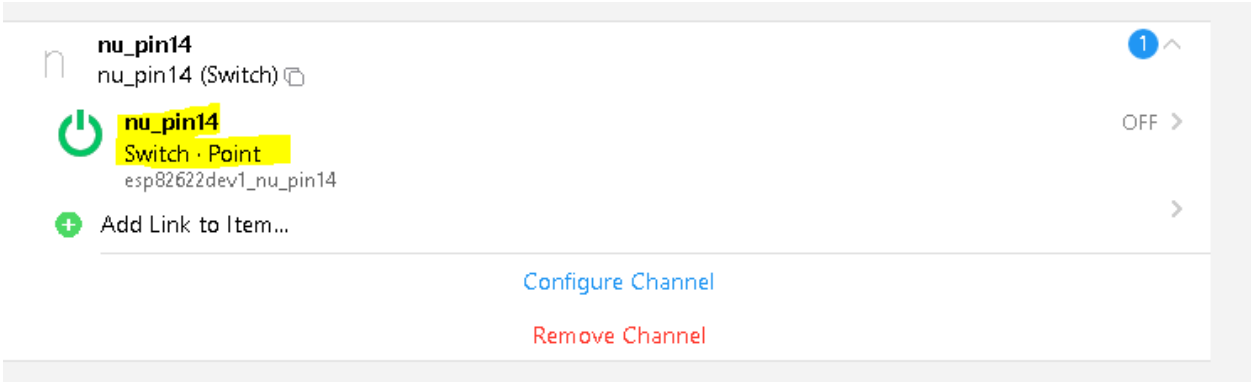
Select the “Create a new Item”



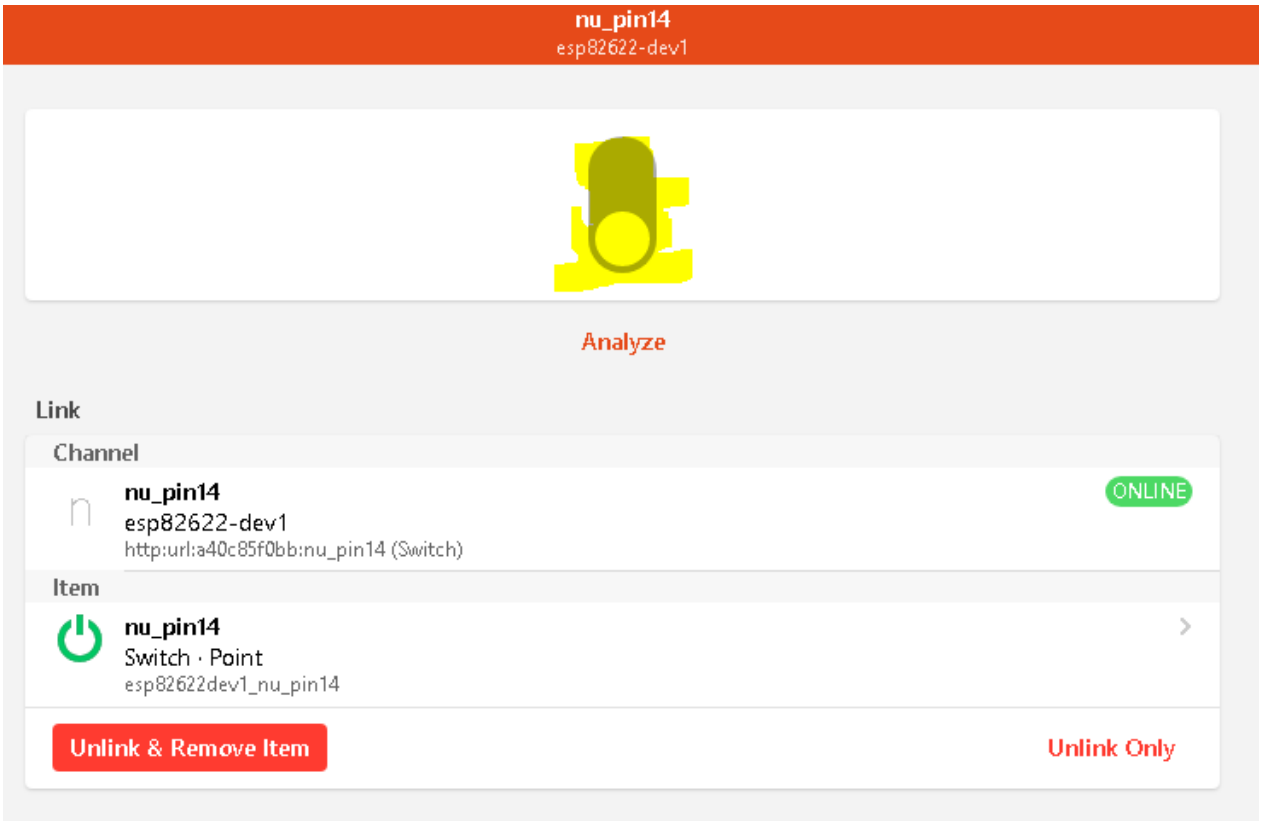
In the Category entry type “switch” and click the Link button to finish



Click the new Switch Point



On this page, you can test the new switch functionality by clicking the button on/off



This completes STEP 7 (Enabling a new Switch PIN to OpenHAB)

Congratulations!

Proceed to STEP 8 (Add DHT Sensor Channels)

End